

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 05013066  
PUBLICATION DATE : 22-01-93

APPLICATION DATE : 01-07-91  
APPLICATION NUMBER : 03188116

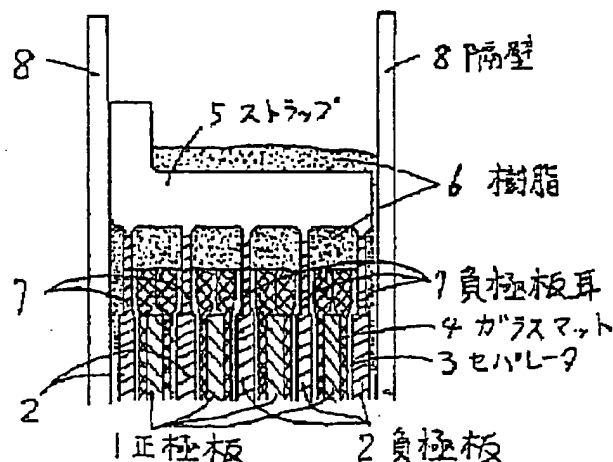
APPLICANT : JAPAN STORAGE BATTERY CO LTD;

INVENTOR : OSUMI SHIGEHARU;

INT.CL. : H01M 2/28 H01M 2/32

TITLE : LEAD-ACID BATTERY

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ABSTRACT : PURPOSE: To prevent the corrosion of both positive and negative plate lugs by covering the negative plate lug and strap with acid resistant resin, while the positive plate lug and strap being not covered with said resin.

CONSTITUTION: A lead-acid battery having four positive plates 1 per cell and five negative plates 2 per cell is assembled, and separators 3 and glass mats 4 are inserted among the positive plates 1 and negative plates 2 for shortcircuit prevention. After straps 5 are formed, the group of said plates is placed in a battery jar and cells are connected to each other. Then, the jar is filled with epoxy resin 6 containing 5wt.% of fine silica powder. Thereafter, an area between negative plate lugs 7, the external side of the negative plates 2 and an area surrounding the negative straps 5 are covered with the resin 6. This treatment, however, does not apply to the lugs of the positive plates 1 and positive straps. According to this construction, the negative plate lugs 7 and the lugs of the positive plates 1 are prevented from corrosion, thereby enhancing the reliability of a lead-acid battery.

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